

Abstract of the Disclosure

A method of selectively depositing a ferroelectric thin film on an indium-containing substrate in a ferroelectric device includes preparing a silicon substrate; depositing an indium-containing thin film on the substrate; patterning the indium containing thin film; annealing the 5 structure; selectively depositing a ferroelectric layer by MOCVD; annealing the structure; and completing the ferroelectric device.